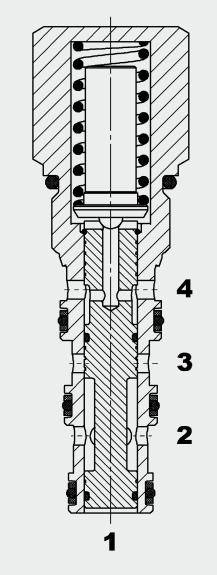


Up to 40 l/min Up to 350 bar

**FUNCTION** 



The WKH10W is a hydraulicallyoperated, 2/2 directional valve. Ports 3 and 2 are closed in the normal position.

When there is an increase in pressure at port 1 against the spring force, the valve opens between port 3 and port 2. Oil can flow through the valve in both directions. Any pressure at port 4 is additive to the spring value.

# 2/2 Directional Spool Valve UNE Hydraulically Operated, Direct-Acting Normally Closed SAE-10 Cartridge – 350 bar

WKH10W/14

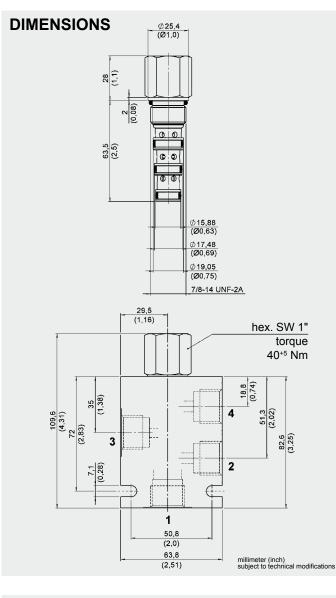
# FEATURES

- Low pressure drop throughout flow range
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life

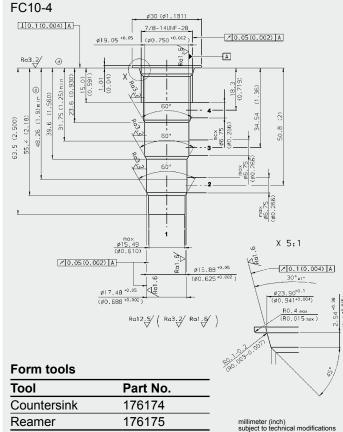
# SPECIFICATIONS

SPECIFICATIONS			
Operating pressure:	max. 350 bar		
Nominal flow:	max. 40 l/min		
Internal leakage:	max. 200 cm <sup>3</sup> /min at 350 bar and 36 mm <sup>2</sup> /s		
Media operating temperature range:	-30 °C to +100 °C		
Ambient temperature range:	min30 °C to +80 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 7.4 mm <sup>2</sup> /s to max. 420 mm <sup>2</sup> /s		
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner		
MTTF <sub>d</sub> :	150 years (see "Conditions and instructions for valves" in brochure 5.300)		
Installation:	No orientation restrictions		
Materials:	Valve body: steel		
	Spool: hardened and ground steel		
	Seals: NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)		
	Back-up PTFE ring:		
Cavity:	FC10-4		
Weight:	approx. 0.192 kg		

484 **HYDAC** 



# CAVITY



### **MODEL CODE**

<u>WKH 10</u> W / <u>14 – 01 – C – NS – 070</u>
Basic model Directional valve, hydraulically operated
Cavity
Symbol W = normally closed
Internal pressure pilot   14   = port 1 and port 4
Type 01 = standard
Body and ports* C = cartridge only Versions with bodies on request*
Seals     N   = NBR (standard)     NS   = NBR standard with additional O-ring on control spool     V   = FKM (optional)     VS   = FKM standard with additional O-ring on control spool
Switch pressure       70 = 4.8 bar (70 PSI)       90 = 6.2 bar (90 PSI)

30 = 9 bar (130 PSI) 180 = 12.4 bar (180 PSI)

Higher switch pressures on version with O-ring on control spool!

#### Standard models

Model code	Part No.
WKH10W/14-01-C-N-070	3633171
WKH10W/14-01-C-N-090	3633172
WKH10W/14-01-C-N-130	3633173
WKH10W/14-01-C-N-180	3633174
Other models on request	

Other models on request

#### \*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
FH104-SB4	3037784	Steel, zinc-plated	1/2 BSP	420 bar
FH104-AB4	3038097	Aluminium, anodized	1/2 BSP	210 bar
<u></u>				

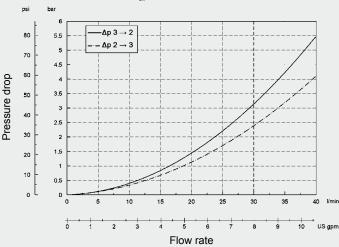
Other line bodies on request

#### Seal kits

Code	Material	Part No.
FS104-N SEAL KIT	NBR	3051912
FS104-V SEAL KIT	FKM	3071275

### PERFORMANCE

Measured at  $v = 33 \text{ mm}^2/\text{s}$ ,  $T_{oil} = 46 \text{ }^\circ\text{C}$ 



**NOTE** The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department department. Subject to technical modifications.

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